Oncostatin M and leukemia inhibitory factor in excitotoxicity

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Stellingen behorende bij het proefschrift

Oncostatin M and Leukemia Inhibitory Factor in Excitotoxicity

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1. Although LIF and OSM are known to have several overlapping properties, their neuroprotective effect is mediated by different mechanisms (Chapters 2 and 6).
2. STAT-3 signal transduction is not required for LIF- and OSM- induced protection of mouse embryonic cortical neurons against glutamate-toxicity (Chapter 3).
3. In mouse astrocyte cultures, STAT-3 activation by OSM reduces cellular glutamate uptake and thereby promotes excitotoxic death of neurons (Chapter 5).
4. OSM plays "opposite" roles in excitotoxicity (promote or inhibit), depending on the target cell of the cytokine action (Chapters 2 and 5).
5. Adenosine and its receptors play an important role in mediating the effects of IL-6-type cytokines in the central nervous system. (This thesis)
6. Knowledge on the effects of IL-6-type cytokines on different cell types of the central nervous system is incomplete. It is therefore premature to state that elevated levels of these "inflammatory" cytokines as observed in injured or diseased brain, is good or bad.
7. The man who makes no mistakes does not usually make anything. (Edward Phelps)
8. Right data only pave half the way to a good research article, the other half depends on how you build and sell the story to your target audience.
9. Working in the west seems to be a good way for an Indian to improve his or her time management skills.
10. Lack of hierarchy while providing the freedom to learn, without imposing it... these are the strongest assets of Dutch culture.
11. Good researchers and photographers share a similar aptitude: the ability to render the unobservable observable.